

**IEEE YMCA SB
ACTIVITY REPORT**

Crafting Renewable Energy Solutions

Flyer of the Event



PELS DELHI SECTION IN COLLAB WITH WIEAG DELHI SECTION

Presents

CRAFTING RENEWABLE ENERGY SOLUTIONS



**HANDS-ON
WORKSHOP**

****EACH TEAM MUST HAVE ONE
FEMALE MEMBER ATLEAST**

**HANDS-ON TRAINING ON
POWER ELECTRONICS PROJECTS: BUCK BOOST
CONVERTERS, MPPT, AND SOLAR INVERTERS**

DATE & VENUE



DATE: 16th OCTOBER

VENUE : JC BOSE UNIVERSITY, YMCA





REGISTER NOW!

RS 49/- *For IEEE Members

RS 79/- *For Non-IEEE Members





***LIMITED SEATS
AVAILABLE**

CONTACT US

Ashar Hussain:
6207182268

Sumit:
9817900451

Nidhi:
8168778278

Title of the Workshop : “**Crafting Renewable Energy Solutions**” Organized by PELS Delhi Section in collaboration with WIE Affinity Group Delhi Section on 16 October 2025 at JC Bose University of Science and Technology, YMCA.

Resource Person: Mr. Ajay Kumar Godara

Objective: The event aimed to enlighten students about the importance of innovative approaches in energy generation, conservation, and efficient utilization for a sustainable future.

The workshop commenced with a welcome address by the IEEE Student Branch coordinators, followed by a brief introduction of the resource person. Mr. Godara began the session by discussing the current global energy challenges and the urgent need to transition towards cleaner energy sources. He elaborated on emerging technologies such as solar photovoltaics, bioenergy, fuel cells, and smart grids.

The session included an interactive discussion on practical implementations and real-life case studies demonstrating how engineering innovations can shape the future of energy. Students actively participated and clarified their doubts, showing great enthusiasm throughout the session. He also explained how MPPT helps us extract the maximum power from a solar panel by tracking its optimal point. The buck converter then steps down the DC voltage to a usable level.

The MPPT controller works through this converter to regulate current and voltage efficiently. Next, the solar inverter converts the DC into AC for our appliances or the grid. So together, these units make solar energy conversion smooth and efficient.”

After a short lunch break , the students were given a practical session and a hands-on segment was also conducted, where participants explored basic models and design ideas for efficient energy systems. The workshop concluded with a Q&A session and vote of thanks delivered by the IEEE Student Branch representatives.

Overall, the workshop proved to be a highly insightful and engaging experience for all attendees, motivating them to think creatively about developing sustainable energy solutions for a better tomorrow.

Total no. of Participants : 41

No. of IEEE Participants: 10





